

PATENT
ATTORNEY DOCKET NO. 50026/059001Certificate of Mailing: Date of Deposit: March 27, 2007

I hereby certify under 37 C.F.R. § 1.8(a) that this correspondence is being deposited with the United States Postal Service as **first class mail** with sufficient postage on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Megan Kiley
Printed name of person mailing correspondence

Megan Kiley
Signature of person mailing correspondence

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Iwadate et al.	Confirmation No.:	4667
Serial No.:	10/585,884	Art Unit:	Not Yet Assigned
Filed:	July 12, 2006	Examiner:	Not Yet Assigned
Customer No.:	21559		
Title:	GENE THERAPY FOR TUMORS USING MINUS-STRAND RNA VIRAL VECTORS ENCODING IMMUNOSTIMULATORY CYTOKINES		

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the enclosed Form PTO-1449, copies of which are enclosed, with the exception of U.S. patents and U.S. patent application publications. A copy of a search report from a corresponding international application and is also enclosed.

Applicants note that JP 2000-253876, WO 97/16539 A1, WO 00/01837 A1, WO 00/70055 A1, WO 00/70070A1, WO 02/31138 A1, WO 03/025570 A1, WO 03/029475 A1, WO 03/102183 A1, WO 04/022731 A1, and WO 04/038029 A1 are written in the

Japanese language, except for the English language abstract. English language translations of these publications are enclosed.

JP 58-157723 A, JP 7-503455 A, and Hasegawa ("Shinki Idenshi Chiryoyo Vector No Kaihatsu," The Cell (Saibou) 33(6): 227-231 (2001)), are written in the Japanese language. In accordance with 37 C.F.R. § 1.98(a)(3), enclosed is an English language search report listing JP 58-157723 A, JP 7-503455 A, and Hasegawa ("Shinki Idenshi Chiryoyo Vector No Kaihatsu," The Cell (Saibou) 33(6): 227-231 (2001)).

Submission of this statement is not a representation that a search has been made, nor is the inclusion of information in this statement an admission that the information is material to patentability.

This statement is being filed before the receipt of a first Office action on the merits.

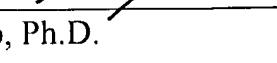
If there are any charges or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date: 27 March 2007



James D. DeCamp, Ph.D.
Reg. No. 43,580



James D. DeCamp, Ph.D.
Reg. No. 52,290

Clark & Elbing LLP
101 Federal Street
Boston, MA 02110
Telephone: 617-428-0200
Facsimile: 617-428-7045

SUBSTITUTE FORM PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket No. 50026/059001
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Serial No. 10/585,884
		Applicant Iwadate et al.
		Filing Date July 12, 2006
		Group Not yet assigned
(37 C.F.R. § 1.98(b))		IDS Filed March 27, 2007

U.S. PATENT DOCUMENTS				
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant	Filing Date (If Appropriate)
	10/578,085		Okano et al.	May 3, 2006
	2002/0012995 A1	Jan. 31, 2002	Fukumura et al.	
	2002/0169306 A1	Nov. 14, 2002	Kitazato et al.	
	2003/0022376 A1	Jan. 30, 2003	Kitazato et al.	
	2003/0166252 A1	Sep. 4, 2003	Kitazato et al.	
	2003/0170266 A1	Sep. 11, 2003	Kitazato et al.	
	2005/0266566 A1	Dec. 1, 2005	Nagai et al.	
	2005/0271628 A1	Dec. 8, 2005	Fukumura et al.	
	2007/0009949 A1	Jan. 11, 2007	Kitazato et al.	
	6,645,760 B2	Nov. 11, 2003	Nagai et al.	
	6,723,532 B2	Apr. 20, 2004	Nagai et al.	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION				
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Translation (Yes/No)
	EP 0 864 645 A1	Sep. 16, 1998	EPO	
	JP 58-157723 A	Sep. 19, 1983	Japan	No
	JP 7-503455 A	Apr. 13, 1995	Japan	No
	JP 2000-253876	Sep. 19, 2000	Japan	Yes
	WO 97/16539 A1	May 9, 1997	WIPO	Yes
	WO 00/01837 A1	Jan. 13, 2000	WIPO	Yes

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.	

SUBSTITUTE FORM PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket No. 50026/059001
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Serial No. 10/585,884
		Applicant Iwadate et al.
		Filing Date July 12, 2006
		Group Not yet assigned
(37 C.F.R. § 1.98(b))		IDS Filed March 27, 2007

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION				
	WO 00/70055 A1	Nov. 23, 2000	WIPO	Yes
	WO 00/70070 A1	Nov. 23, 2000	WIPO	Yes
	WO 02/31138 A1	Apr. 18, 2002	WIPO	Yes
	WO 02/38726 A2	May 16, 2002	WIPO	
	WO 03/025570 A1	Mar. 27, 2003	WIPO	Yes
	WO 03/029475 A1	Apr. 10, 2003	WIPO	Yes
	WO 03/102183 A1	Dec. 11, 2003	WIPO	Yes
	WO 04/022731 A1	Mar. 18, 2004	WIPO	Yes
	WO 04/038029 A1	May 6, 2004	WIPO	Yes

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)	
	Bitzer et al., "Sendai Virus Vectors as an Emerging Negative-Strand RNA Viral Vector System," <i>J. Gen. Med.</i> 5(7): 543-553 (2003).
	Bitzer et al., "Negative-strand RNA Viral Vectors: Intravenous Application of Sendai Virus Vectors for the Systemic Delivery of Therapeutic Genes," <i>Mol. Ther.</i> 7(2): 210-217 (2003).
	Boviatsis et al., "Gene Transfer into Experimental Brain Tumors Mediated by Adenovirus, Herpes Simplex Virus, and Retrovirus Vectors," <i>Hum. Gene Ther.</i> 5(2): 183-191 (1994).
	Giezeman-Smits et al., "Cytokine Gene Therapy of Gliomas: Induction of Reactive CD4 ⁺ T Cells by Interleukin-4-Transfected 9L Gliosarcoma Is Essential for Protective Immunity," <i>Cancer Res.</i> 60(9): 2449-2457 (2000).
	Hasegawa, "Shinki Idenshi Chiryoyo Vector No Kaihatsu," <i>The Cell (Saibou)</i> 33(6): 227-231 (2001).
	Herrlinger et al., "Vaccination for Experimental Gliomas using GM-CSF-Transduced Glioma Cells," <i>Cancer Gene Ther.</i> 4(6): 345-352 (1997).
	Inoue et al., "Matrix and Fusion Genes-Deficient Sendai Virus Vector: Efficient Gene Transfer with Preferable Properties," <i>Mol. Ther.</i> 5(5): S174-S175, Abstract #530 (2002).
	Inoue et al., "Recombinant Sendai Virus Vectors Deleted in both the Matrix and the Fusion Genes: Efficient Gene Transfer with Preferable Properties," <i>J. Gene Med.</i> 6(10): 1069-1081 (2004).

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.	

SUBSTITUTE FORM PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket No. 50026/059001
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Serial No. 10/585,884
		Applicant Iwadate et al.
		Filing Date July 12, 2006
		Group Not yet assigned
(37 C.F.R. § 1.98(b))		IDS Filed March 27, 2007

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)	
	Iwadate et al., "Induction of Acquired Immunity in Rats that have Eliminated Intracranial Gliosarcoma Cells by the Expression of Herpes Simplex Virus-Thymidine Kinase Gene and Ganciclovir Administration," <i>Oncology</i> 54(4): 329-334 (1997).
	Iwadate et al., "Immunological Responsiveness to Interleukin-2-Producing Brain Tumors can be Restored by Concurrent Subcutaneous Transplantation of the Same Tumors," <i>Cancer Gene Ther.</i> 7(9): 1263-1269 (2000).
	Iwadate et al., "Induction of Immunity in Peripheral Tissues Combined with Intracerebral Transplantation of Interleukin-2-Producing Cells Eliminates Established Brain Tumors," <i>Cancer Res.</i> 61(24): 8769-8774 (2001).
	Iwadate et al., "Interleukin-12-Mediated Induction of Systemic Immunity in the Periphery and Recruitment of Activated T Cells into the Brain Produce Limited Antitumor Effects Compared with Interleukin-2," <i>Int. J. Mol. Med.</i> 10(6): 741-747 (2002).
	Iwadate et al., "Glioma-Specific Cytotoxic T Cells can be Effectively Induced by Subcutaneous Vaccination of Irradiated Wild-Type Tumor Cells without Artificial Cytokine Production," <i>Int. J. Oncol.</i> 23(2): 483-488 (2003).
	Kramm et al., "Therapeutic Efficiency and Safety of a Second-Generation Replication-Conditional HSV1 Vector for Brain Tumor Gene Therapy," <i>Hum. Gene Ther.</i> 8(17): 2057-2068 (1997).
	Li et al., "A Cytoplasmic RNA Vector Derived from Nontransmissible Sendai Virus with Efficient Gene Transfer and Expression," <i>J. Virol.</i> 74(14): 6564-6569 (2000).
	Ram et al., "In Situ Retroviral-Mediated Gene Transfer for the Treatment of Brain Tumors in Rats," <i>Cancer Res.</i> 53(1): 83-88 (1993).
	Ram et al., "In Vivo Transfer of the Human Interleukin-2 Gene: Negative Tumoricidal Results in Experimental Brain Tumors," <i>J. Neurosurg.</i> 80(3): 535-540 (1994).
	Ram et al., "Therapy of Malignant Brain Tumors by Intratumoral Implantation of Retroviral Vector-Producing Cells," <i>Nat. Med.</i> 3(12): 1354-1361 (1997).
	Saleh et al., "Effect of In Situ Retroviral Interleukin-4 Transfer on Established Intracranial Tumors," <i>J. Natl. Cancer Inst.</i> 91(5): 438-445 (1999).
	Sampson et al., "Subcutaneous Vaccination with Irradiated, Cytokine-Producing Tumor Cells Stimulates CD8 ⁺ Cell-Mediated Immunity Against Tumors Located in the "Immunologically Privileged" Central Nervous System," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 93(19): 10399-10404 (1996).
	Shapiro, "Current Therapy for Brain Tumors," <i>Arch. Neurol.</i> 56(4): 429-432 (1999).
	Shirakura et al., "Sendai Virus Vector-Mediated Gene Transfer of Glial Cell Line-Derived Neurotrophic Factor Prevents Delayed Neuronal Death after Transient Global Ischemia in Gerbils," <i>Exp. Anim.</i> 52(2): 119-127 (2003).
	Suzuki et al., "Feeding Suppression by Fibroblast Growth Factor-1 is Accompanied by Selective Induction of Heat Shock Protein 27 in Hypothalamic Astrocytes," <i>Eur. J. Neurosci.</i> 13(12): 2299-2308 (2001).
	International Search Report for PCT/JP2005/000238, mailed April 26, 2005.
EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.	